Attorney Docket: 19111.0038

REMARKS/ARGUMENTS

In response to the Office Action dated October 28, 2003, please consider the following remarks.

In the Office Action issued October 28, 2003, claims 1-14 were rejected under 35 U.S.C. §101 as being directed to a nonfunctional descriptive material. Claims 1-14 were rejected under 35 U.S.C. §101 as not being tangibly embodied. Claims 5-6 were rejected under 35 U.S.C. §112, ¶2 as being indefinite. Claims 1-8 and 13-14 were rejected under 35 U.S.C. §102(a) as being anticipated by a printed publication by Chong et al., "B+-Tree Indexes with Hybrid Row Identifiers in Oracle 8i" (Chong). Claims 1-8 and 13-14 were rejected under 35 U.S.C. §102(b) as being anticipated by Knudsen, U.S. Patent No. 5,682,535A. Claims 9-12 were indicated as being allowable if rewritten to overcome the rejection(s) under 35 U.S.C. §101 and to include all of the limitations of the base claim and any intervening claims.

Claims 1-14 are now pending in this application. Claims 1, 5, 7, 8, and 9 have been amended to more particularly point out the subject matter that the inventor considers to be the invention and to overcome the rejections under 35 U.S.C. §101. Claim 5 has been amended to overcome the rejection under 35 U.S.C. §112, ¶2 and. Claims 2 and 3 have been cancelled.

Claims 1, 5, 7, 8, and 9 have been amended to overcome the rejections under 35 U.S.C. §101. In particular, the claims have been amended to recite that

Attorney Docket: 19111.0038

the subject matter of the claims is tangibly embodied in a memory of a computer system and as such provide functional and structural features in such memory and such computer system. Claim 13 recites a computer program product that comprises computer program instructions that are executable by a processor. This is a tangible embodiment of the recited subject matter and further, this subject matter is functional, as it is used to control the execution of a processor to perform a novel process. Claim 14 recites a system that comprises a processor and a memory operable to store computer program instructions that are executable by the processor. This is a tangible embodiment of the recited subject matter and further, this subject matter is functional, as it is used to control the execution of the processor to perform a novel process.

Claims 9-12 should now be in form for allowance. Claim 9 has been amended to overcome the rejections under 35 U.S.C. §101. Claim 9 is an independent claim including subject matter indicated as being allowable, thus claim 9, and claims 10-12, which depend from claim 9, should now be in form for allowance.

A Petition to Correct Inventorship is being filed concurrently herewith. A copy of the Petition and associated papers are attached at Exhibit A.

The inventorship of the present application has been corrected to remove a person who was erroneously, and without deceptive intent, listed as an inventor.

As the corrected inventorship of the present application is identical to the

authorship of the Chong article, the Chong article is not a proper reference under 35 U.S.C. §102(a). Thus, the rejection of claims 1-8 and 13-14 under 35 U.S.C. §102(a) as being anticipated by the Chong article is moot.

The applicant respectfully submits that the present invention, according to claims 1-8 and 13-14 are not anticipated by Knudsen. Knudsen discloses a table data store as the native access method for an object-oriented operating system. Data in this system is stored in a balanced structure where each table is ordered on the primary key within the table. The table data store consists of a table index page 500. The table index page includes a list of table names with pointers to a parameter index page 501 where appropriate. Other entries in the table index page point directly to a primary key index 503. Entries in the parameter index page 501 point to a primary key index 502. The primary key index is a balanced binary tree 507 based on the B+ tree organization ordered on the primary key (where index 502 is the top of the tree). The bottom of the B+ tree points to the actual link to data pages which store occurrences for the table.

By contrast, the present invention, for example, according to claim 1, requires a mapping table comprising a row for each row of the primary B+tree, wherein each row of the mapping table comprises a primary key value from the primary B+tree and the mapping table provides one-to-one mapping between primary keys of the primary B+tree structure and physical row identifiers of the mapping table. Knudsen discloses a primary key index that is a balanced binary

tree based on the B+ tree organization ordered on the primary key. However, Knudsen does not disclose or suggest the claimed mapping table that provides one-to-one mapping between primary keys of the primary B+tree structure and physical row identifiers of the mapping table.

Thus, the present invention, according to claim 1, and according to claim 4, which depends from claim 1, is not anticipated by Knudsen.

The present invention, according to claim 4, is not anticipated by Knudsen for the additional reason that claim 4 requires that each row of the mapping table comprise a guess-DBA, database block address of a leaf block of the primary B+tree, where the corresponding primary B+tree row is likely to be found. Knudsen provides no teaching or suggestion of such a guess-DBA, where a corresponding primary B+tree row is likely to be found.

Thus, the present invention, according to claim 4, is not anticipated by Knudsen.

The present invention, for example, according to claim 5, requires a primary B+tree in a memory of a computer system, comprising mapping table row identifiers, each mapping table row identifier stored in a row of the primary B+tree, the mapping table row identifiers comprising a physical row identifier of a corresponding mapping table row. Knudsen provides no teaching or suggestion of such a primary B+tree.

Thus, the present invention, according to claim 5, and according to claim 6, which depends from claim 5, is not anticipated by Knudsen.

The present invention, according to claim 6, is not anticipated by Knudsen for the additional reason that claim 6 requires that the mapping table row identifiers are stored at a fixed offset from a beginning of each row of the primary B+tree. Knudsen provides no teaching or suggestion of such mapping table row identifiers.

Thus, the present invention, according to claim 6, is not anticipated by Knudsen.

The present invention, for example, according to claim 7, requires an auxiliary structure for a primary B+tree in a memory of a computer system, the auxiliary structure comprising row identifiers of corresponding mapping table rows, the row identifiers referring to a primary B+tree row. Knudsen provides no teaching or suggestion of such an auxiliary structure.

Thus, the present invention, according to claim 7, is not anticipated by Knudsen.

The present invention, for example, according to claim 8, requires a method for loading/populating a primary B+tree in a memory of a computer system having an associated mapping table, the method comprising generating a row of the mapping table for each row of the primary B+tree and storing in each row of the mapping table a row identifier for a corresponding row of the primary B+tree, the

row identifier comprising a primary key column value for each row of the primary B+tree and a guess-DBA. Knudsen does not disclose or suggest such a method and further does not disclose or suggest the required mapping table and the guess-DBA.

Thus, the present invention, according to claim 8, is not anticipated by Knudsen.

The present invention, for example, according to claim 13, requires a computer program product for performing a process for indexing a primary B+tree, the computer program product comprising a computer readable medium; and computer program instructions, recorded on the computer readable medium, executable by a processor, for performing the steps of generating a row of a mapping table for each row of the primary B+tree and storing in each row of the mapping table a row identifier for a corresponding row of the primary B+tree, the identifier comprising a primary key column value and a guess-database address for each row of the primary B+tree. Knudsen does not disclose or suggest such a computer program product and further does not disclose or suggest the required mapping table and the guess-database address.

Thus, the present invention, according to claim 13, is not anticipated by Knudsen.

The present invention, for example, according to claim 14, requires a system for performing a process for indexing a primary B+tree, the system

Attorney Docket: 19111.0038 PATENT

comprising a processor operable to execute computer program instructions and a memory operable to store computer program instructions executable by the processor, for performing the steps of generating a row of a mapping table for each row of the primary B+tree and storing in each row of the mapping table a row identifier for a corresponding row of the primary B+tree, the identifier comprising a primary key column value and a guess-database address for each row of the primary B+tree.

Thus, the present invention, according to claim 14, is not anticipated by Knudsen.

Each of the claims now pending in this application is believed to be in condition for allowance. Accordingly, favorable reconsideration of this case and early issuance of the Notice of Allowance are respectfully requested.

PATENT Attorney Docket: 19111.0038

Additional Fees:

The Commissioner is hereby authorized to charge any insufficient fees or

credit any overpayment associated with this application to Deposit Account No. 19-

5127 (19111.0038).

Conclusion

In view of the foregoing, all of the Examiner's rejections to the claims are

believed to be overcome. The Applicants respectfully request reconsideration and

issuance of a Notice of Allowance for all the claims remaining in the application.

Should the Examiner feel further communication would facilitate prosecution, he

is urged to call the undersigned at the phone number provided below.

Respectfully Submitted,

Mulled a. Dunts

Michael A. Schwartz

Reg. No. 40,161

Dated: January 28, 2004

Swidler Berlin Shereff Friedman, LLP

3000 K Street, N.W., Suite 300

Washington, D.C. 20007

(202) 424-7500

15

PTO/SB/21 (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

09/867,678

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Application Number

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SIGNATU	JRE OF A	APPLICANT, ATTORNEY, O	R AGENT		
Firm or Individual name Michael A. Schwartz, Reg. No. 40,161					
Date January 28, 2004					
	CER	RTIFICATE OF MAILING			
a ig	SIGNATI el A. Schwartz, Ro	SIGNATURE OF A el A. Schwartz, Reg. No. 40,10 M. World A. ry 28, 2004	SIGNATURE OF APPLICANT, ATTORNEY, Of the A. Schwartz, Reg. No. 40,161		

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

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Complete if Known			
Application Number	09/867,678		
Filing Date	May 31, 2001	RECEIVED	
First Named Inventor	Eugene I. Che	ong ALCLIVLD	
Examiner Name	K. Pham	FFB 0 3 2004	
Art Unit	2177	LB 0 0 Loc	
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Number		_		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
Deposit				1053	130	1053	130	Non-English specification	
Account	Swidler Berlin S	Shereff Friedman, LLP		1812	2,520	1812	2,520	For filing a request for reexamination	
Name The Director is authorized to: (check all that apply)			1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		
☐ Charge fee(s) indicated below ☐ Credit any overpayments ☐ Charge any additional fee(s) during the pendency of this application			1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		
│		except for the filing	fee	1251	110	2251	55	Extension for reply within first month	
to the above-ident		ALCULATION		1252	420	2252	210	Extension for reply within second month	
1. BASIC F	ILING FEE			1253	950	2253	475	Extension for reply within third month	
Large Entity	Small Entity	Fee Description		1254	1,480	2254	740	Extension for reply within fourth month	
	code (\$)	ree Description	Fee Paid	1255	2,010	2255	1,005	Extension for reply within fifth month	
,,,		Utility filing fee		1401	330	2401	165	Notice of Appeal	
1002 340 2		Design filing fee		1402	330	2402	165	Filing a brief in support of an appeal	
1003 530 2	003 265	Plant filing fee		1403	290	2403	145	Request for oral hearing	
		Reissue filing fee Provisional filling fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 100 2	.005 80	Provisional miling lee		1452	110	2452	55	Petition to revive - unavoidable	
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A EVER 1 01 1				1501	1,330	2501	665	Utility issue fee (or reissue)	
2. EXTRA CLA	IM FEES FOR	RUTILITY AND RE		1502	480	2502	240	Design issue fee	
		Extra Fee from Claims below	Fee Paid	1503	640	2503	320	Plant issue fee	
Total Claims	20 ** = [0 x	= 0	1460	130	1460	130	Petitions to the Commissioner	130
Independent		0 x		1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
Claims Multiple] -3 " = [= 0	1806	180	1806	180	Submission of Information Disclosure Stmt	
Dependent Large Entity	: Small Entity	x	= 0	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
Fee Fee Code (\$)	Fee Fee Code (\$)			1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1202 18	2202 9	Claims in excess of	20	1810	770	2810	385	For each additional invention to be	
1201 86	2201 43	Independent claims	in excess of 3					examined (37 CFR § 1.129(b))	
1203 290	2203 145	Multiple dependent ** Reissue indepen	•	1801	770	2801	385	Request for Continued Examination (RCE)	
1204 86	2204 43	original patent		1802	900 l	1802	900	Request for expedited examination of a design application	
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SUBMITTED BY

Name (Print/Type)

Michael A. Schwartz

Registration No. (Attgrney/Agent)

(Attgrney/Agent)

Signature

Complete (if applicable)

Telephone 202/424-7500

Date January 28, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Attorney Reference: 19111.0038

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Eugene I. CHONG

Confirmation No. 7207

Application. No.: 09/867,678

Art Unit: 2177

Filed: May 31, 2001

Title: MAPPING LOGICAL ROW IDENTIFIERS FOR PRIMARY B+TREE-LIKE

STRUCTURES TO PHYSICAL ROW IDENTIFIERS

PETITION TO CORRECT INVENTORSHIP

FEB 0 3 2004

RECEIVED

Mail Stop Petition Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Technology Center 2100

Sir:

Applicant submits herewith the following documents for appropriate action by the U.S. Patent and Trademark Office to request correction of inventorship in the above-listed matter:

- 1. Consent of Assignee to Correction of Inventorship;
- 2. Statement Regarding Inventorship;
- 3. Power of Attorney and Revocation of Previous Powers; and
- 4. Declaration for Patent Application.

The Commissioner is hereby authorized to charge \$130 and any additional fees due or credit any overpayment to Deposit Account No. 19-5127.

Date: January 28, 2004

Respectfully submitted,

Michael A. Schwartz, Reg. No. 40,161 Swidler Berlin Shereff Friedman, LLP

Michael a. Shunit

3000 K Street, NW, Suite 300 Washington, DC 20007

Telephone: (202) 424-7500

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Application No.

09/867,678

Applicant

Eugene I. CHONG

Filed

May 31, 2001

Title

MAPPING LOGICAL ROW IDENTIFIERS FOR

PRIMARY B+TREE-LIKE STRUCTURES TO

PHYSICAL ROW IDENTIFIERS

TC/A.U.

: 2177

Examiner

Pham, K.

Docket No.

19111.0038

CONSENT OF ASSIGNEE TO CORRECTION OF INVENTORSHIP

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 RECEIVED

FEB 0 3 2004

Dear Sir,

Technology Center 2100

ORACLE INTERNATIONAL CORPORATION, the assignee of the entire interest of the captioned application, hereby consents to correction of the inventorship of the above application by the deletion of Richard Jiang as an inventor.

Respectfully submitted,

Assignee of Interest:

Oracle International Corporation

Dated:

By: Name:

- -----

Title

Address of Assignee of Interest:

Oracle International Corporation 500 Oracle Parkway - M/S 50P7

Redwood Shores, CA 94065

Attorney Docket: 19111.0038

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.

09/867,678

Applicant

Eugene I. CHONG

Filed

May 31, 2001

Title

MAPPING LOGICAL ROW IDENTIFIERS FOR

PRIMARY B+TREE-LIKE STRUCTURES TO

PHYSICAL ROW IDENTIFIERS

TC/A.U.

2177

Examiner

Pham, K.

Docket No.

19111.0038

STATEMENT REGARDING INVENTORSHIP

RECEIVED

FEB 0 3 2004

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Technology Center 2100

Dear Sir,

I, Richard Jiang, hereby declare as follows:

Through no deceptive intention on my part, an error in inventorship occurred in the above-referenced application when I was incorrectly listed as an inventor.

The undersigned inventor declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by

Attorney Docket: 19111.0038 PATENT

fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 1/2//2004

Richard Jiang

Richard Gang

Attorney Docket No. 19111.0038



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Group Art Unit No.:

2177

Eugene I. Chong, et al.

Examiner:

K. Pham

Serial No.: 09/867,678

Filed on: May 31, 2001

MAPPING LOGICAL ROW IDENTIFIERS FOR PRIMARY B+TREE-LIKE

STRUCTURES TO PHYSICAL ROW IDENTIFIERS

RECEIVED

POWER OF ATTORNEY AND REVOCATION OF PREVIOUS POWERS

FEB 0 3 2004

Commissioner for Patents Washington, D.C. 20231

Technology Center 2100

Sir:

For:

Oracle International Corporation, a California corporation having a place of business at 500 Oracle Parkway, M/S 5OP7, Redwood Shores, California 94065, certifies that to the best of its knowledge and belief it is the assignee or is entitled to ownership of the entire right, title, and interest in and to the above-referenced patent application by virtue of an Assignment filed concurrently herewith and represents that the undersigned is a representative authorized and empowered to sign on behalf of Oracle Corporation, which hereby revokes all powers of attorney previously given and appoints the following attorney(s) and/or agent(s): Customer No. 23517, Edward A. Pennington (Reg. No. 32,588), John P. Moran (Reg. No. 30,906), Eric J. Franklin (Reg. No. 37,134), Michael A. Schwartz (Reg. No. 40,161), Robert C. Bertin (Reg. No. 41,488), Alicia A. Meros (Reg. No. 44,937), Chadwick A. Jackson (Reg. No. 46,495), Sean O'Hanlon (Reg. No. 47,252), John P. Mulgrew, II (Reg. No. 47,809), and James H. Laughlin (Reg. No. 22,947), all of

Customer No. 23517
Swidler Berlin Shereff Friedman, LLP
3000 K Street, N.W.
Suite 300
Washington, D.C. 20007

and

Sanjay Prasad, Reg. No. 36,247, Roger Kennedy, Reg. No. 44,823, and Pavel Pogodin, Reg. No. 48,205 of ORACLE INTERNATIONAL CORPORATION

Attorney Docket No. 19111.0038

with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Send all future correspondence to the Attention of Edward A. Pennington, Reg. No. 32,588, care of the above address and direct all telephone calls to the same at 202-424-7500

Assignee of Interest:

Oracle International Corporation

Dated: 122 / 200

By:

Name:

Title

Address of Assignee of Interest:

Oracle International Corporation

500 Oracle Parkway - M/S 5OP7

Redwood Shores, CA 94065

Attorney's Docket No.: 19111.0038

Patent No. 09/867,678



DECLARATION FOR PATENT APPLICATION

As a below named inventor(s), I hereby declare that:

My residence, mailing address and citizenship are as stated below, next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

patent is sought on the	invention entitled			
	TO PHYSIC	ERS FOR PRIMARY B+TF AL ROW IDENTIFIERS"	EE-LIKI	STRUCTURES
the specification of whi	ch is attached hereto. was filed on <u>May</u> 3	1 2001 00		RECEIVED
	United States Applica	tion Number _09/867,678 ,		FEB 0 3 2004
	or PCT International A and was amended on	Application Number		Technology Center 2100
including the claims(s),	as amended by any an	tand the contents of the above nendment referred to above.		
Title 37, Code of Feder	al Regulations, Section	on known to me to be material 1.56 (copy attached).	to patenta	ability as defined in
roreign application(s) to	r patent or inventor's ce atent or inventor's certi	tle 35, United States Code, Se ertificate listed below and have ficate having a filing date befor	also ident e that of th	ified helow any
Prior Foreign Applicatio	<u>n(s)</u>		Priority <u>Claimed</u>	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
I hereby claim the bene- provisional application(s	fit under Title 35, United s) listed below	States Code, Section 119(e)	of any Unit	led States
(Application Number) (Fil	ing Date)		
(Application Number	r) (Fi	ling Date)		

I hereby claim benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 (copy attached) which became available between the filling date of the prior application and the national or PCT International filling date of this application:

(Application Number)	(Filing Date)	(Status - patented, pen	iding, abandoned)		
(Application Number)	(Filing Date)	(Status - patented, pen	ding, abandoned)		
(Application Number)	(Filing Date)	(Status - patented, pen	ding, abandoned)		
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.					
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I hereby claim benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 (copy attached) which became available between the filing date of the prior application and the national or PCT International filing date of this application: (Application Number) (Filing Date) (Status - patented, pending, abandoned) (Application Number) (Filing Date) (Status - patented, pending, abandoned) (Application Number) (Filing Date) (Status - patented, pending, abandoned) I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. Full Name of Sole/First Inventor (given name, family name) Eugene I. Chong Inventor's Signature Residence Concord Massachusetts 01742 Citizenship US (City, State) (Country) Mailing Address: 9 Dunbar Way, Concord, Massachusetts 01742 Full Name of Second Inventor (given name, family name) Jagannathan Srinivasan Date Jan

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